

H81M-A

- CPU

Intel® Socket 1150 for 4th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors

Supports Intel® 22 nm CPU

Supports Intel® Turbo Boost Technology 2.0

* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

* Refer to www.asus.com for CPU support list

- Chipset

Intel® H81

- Memory

2 x DIMM, Max. 16GB, DDR3 1600/1333/1066 MHz Non-ECC, Un-buffered Memory

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

* Due to Intel® chipset limitation, DDR3 1600 MHz and higher memory modules on XMP mode will run at the maximum transfer rate of DDR3 1600 Mhz.

- Graphic

Integrated Graphics Processor

Multi-VGA output support : HDMI/DVI/RGB ports

- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz

- Supports DVI with max. resolution 1920 x 1200 @ 60 Hz

- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz

Maximum shared memory of 1024 MB

Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™

Dual independent displays support with HDMI/DVI and D-Sub

- Expansion Slots

1 x PCIe x16

2 x PCIe 2.0 x1

- **Storage**

Intel® H81 chipset :

2 x SATA 6Gb/s port(s), yellow

2 x SATA 3Gb/s port(s), dark brown

Supports Intel® Rapid Start Technology, Intel® Smart Connect Technology *¹

- **LAN**

Realtek® 8111G, 1 x Gigabit LAN Controller(s)

- **Audio**

Realtek® ALC887 8-Channel High Definition Audio CODEC *²

- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking

- **USB Ports**

Intel® H81 chipset :

2 x USB 3.0/2.0 port(s) (2 at back panel, blue)

Intel® H81 chipset :

8 x USB 2.0 port(s) (4 at back panel, black, 4 at mid-board)

- **Special Features**

ASUS 5X Protection :

- ASUS DIGI+ VRM - 3 Phase digital power design
- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection
- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability
- ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating

ASUS EPU :

- EPU

ASUS Exclusive Features :

- GPU Boost
- AI Suite 3
- Ai Charger
- Anti-Surge
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- Network iControl
- USB 3.0 Boost
- Disk Unlocker

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2

ASUS Q-Design :

- ASUS Q-Slot

- **Operating System Support**

Windows® 8.1

Windows® 8

Windows® 7

- **Back I/O Ports**

1 x PS/2 keyboard (purple)

1 x PS/2 mouse (green)

1 x DVI

1 x D-Sub

1 x HDMI

1 x LAN (RJ45) port(s)

2 x USB 3.0 (blue)

4 x USB 2.0

3 x Audio jack(s)

- **Internal I/O Ports**

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

1 x TPM connector(s)

2 x SATA 6Gb/s connector(s)

2 x SATA 3Gb/s connector(s)

1 x CPU Fan connector(s) (1 x 4 -pin)

1 x Chassis Fan connector(s) (1 x 4 -pin)

1 x S/PDIF out header(s)

1 x 24-pin EATX Power connector(s)

1 x 4-pin ATX 12V Power connector(s)

1 x Front panel connector(s)

1 x Front panel audio connector(s) (AAFP)

1 x Internal speaker connector(s)

1 x Clear CMOS jumper(s)

- **Accessories**

User's manual

I/O Shield

2 x SATA 6Gb/s cable(s)

- **BIOS**

64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.7, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information

- **Manageability**

WfM 2.0, DMI 2.0, WOL by PME, PXE

- **Support Disc**

Drivers

ASUS Utilities

EZ Update

Anti-Virus Software (OEM Version)

- **Form Factor**

uATX Form Factor

8.9 inch x 6.9 inch (22.6 cm x 17.5 cm)

- **Note**

*1-1:Due to the limitation of the Intel® H81chipset, Intel® Rapid Start Technology can be configured only from the BIOS Setup program.

*1-2:These functions will work depending on the CPU installed.

*2:Use a chassis with HD audio module in the front panel to support an 8-channel audio output.